### New Things in War---How the Aeroplane, Zeppelin, Auto and Submarine Have Revolutionized Modern Methods of Battle Among the Nations the strategy of the aeroplamist is to get above the big auriward antagonist just as a fing-bird gets.



## MODERN METHODS OF WAR IN AIR, ON EARTH, UNDER SEA, ARE PUT TO TEST IN EUROPE

Conflict of Many Nations Gives First Opportunity for Real Proof of the Value of Aeroplane, Auto, Zeppelin and Submarine.

By JOHN S. GREGORY.

waters thereof with the aid of numerous devices never before tested in actual hostilities. Aeroplanes, automobiles and submarines have sental scale. All have been greatly improved since these tests, and many occasories have been added. Radical changes, believed to be improvements, Seen made in more familiar material and methods. some of its devotees profess to believe that the art of war has been revolutionised. Whether it has or not the world will soon know.

Most spectacular of new develop- of a village from an altitude ments in warfare is the advent of the feet. Another, flying at an altitude airship and the serobiane on an im- of 3,000 feet, got the range of a canng scale. Military authorities of vas target representing a boat on appear to have become Lake Constance at the third shot, convinced of the value of these new and then scored nearly 100 per cent. fighting machines. At least, France, of hits. These big ships have a plat-Germany and Russia and, more recently, England, have displayed an a machine gun is mounted as a pro energy amounting to frenzy in the tection against aeroplanes. development of these machines. With Against these bulky and so current appropriation of \$32,500,000 what clumsy dirigibles France has de-

As an indication of their reliability the Zeppelin Company announced that out of 334 days from Jan. 1 to Dec. 1, 1912, their airships fiew on 206 days, being up a total of 1,167 hours and covering a distance of 41,165 miles and carrying a total of 10,166 miles and carrying a total of 10,167 persons, including 5,609 members of the crews and 4,682 passengers, all without a single fatal accident.

without a single fatal accident. From the German point of view these craft are battieships of great destructive power, for they can release half a ton of explosives at once; and in experiments they have completely shot to pieces the silhouette object of keeping six machines in the

Trucks with proposed to the party prod larget AROPLANES VERGUS AUSMANAMES PURIOUS AROPLANES VERGUS AUSMANAMES PURIOUS AROPLANES VERGUS AROPLANES AROPLANES VERGUS AROPLANES VERG for the purpose, Germany set out to offset England's naval supremacy by building a great feet of dirighlees. At first the British War Department professed to scoff at Germany's purposes, but after contemplating the possibility of a fleet of airships flying across the North Sea a comprehensive programme for building air craft was undertaken in haste.

Millions have been lavished on experiments with air craft; aviators have been drilled by hundreds; every contingency in war that could be foreseen has been tested at the annual army manocurves of the great research and the Schoette-Lans. These monaters are form 400 to 500 feet long, have been developed, the Zeppelin and the Schuette-Lans. These monaters are from 600 to 500 feet long, have a speed of fifty to seventy miles are hone, are appealed of fifty to seventy miles and machine sun bullets, carry small guns, wireless telegraph and a craw of twenty to thirty men.

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Wall the sun and response to t and predictions of the scaremongers could not be made. The destructive power of torpedoes and shells is enor-mous under favorable conditions, but never so great as the average man supposes after a short course in blood-curding aerial fiction. Experiments with dropped live shells and explosives showed that although they might land within a remarkably short distance of the tarment.

might land within a remarkably short distance of the target, it was just that distance that made all the difference in the resulting damage, for the effects of high explosives are very local. Furthermore, the momentum of a heavy object falling from a great height is so great that it is buried in the ground and the force of the explosion is thus neutralized. Judging from analogy with artillery practice against towns, aerial bombs are not worth the time, energy, ammunition against towns, aerial bombs are not worth the time, energy, ammunition and risk to life involved. In the Boer war Ladysmith withstood the battering of 20,000 or more shells with practically no damage. Similar results were observed at Pretoria. Lyddite shells dug caves and made breaches in the walls of a fort at Omdurman, but did little real damage.

Experiments in defense against hostile aeroplanes and airfnips have been quite as elaborate as those in offensive operations. It has been found, for instance, that at 3,000 feet an aeroplane is a hard thing to hit, though experience in aerusia warfare has those that as aeroplane af-

1,299

A German bomb designed for use from the air weighs twenty pounds and is charged with four pounds of trinitrotoluol and 340 steel balls. To guard against mishaps it has a safety catch so that it will not explode until a fall of at least two hundred feet

distance.
The French have a message carrier. to be dropped by an aviator who wishes to continue his flight, consist-ing of a brass tube in which the mesage is enclosed with a charge of Bengal fire, which is ignited by a firing pin on striking the earth. The fire and amoke mark the spot long enough for a man to reach it from a distance of three hundred yards.

Southern Planter One of a But 500 a Day Called on Him Embassy for assistance, directing

illicit operation, but this million was and fight if called.

of raw sugar that cost 3 cents a coming in here at the rate of 500 a the total number of Americans now pound, and recently he sold it in the day to get their books vised. Each in Austria-Hungary is about 1,900. pounds to a bag, which is equal to periods in order that the Government and Americans returning home will be Lioyd steamship Grosser Kuerfurst,

war the price has soared beyond think that Italy will be drawn into

FRANCE WILL OPPOSE STEAMSHIP PURCHASES AS AN AID TO GERMANY.

WASHINGTON, Aug. 28 .- A mbassador Jusserand of France has india fall of at least two hundred least will some allows a revolving vane to unscrew the safety catch and bring the firing pin in contact with the explosive. A slight touch will then set off the States for its merchant marine of

alight touch will then set off the bomb.

The Krupp works have devised a fire bomb which sheds a bright light during its flight to the earth and after it strikes so that airship gunners may be able to aim accurately during the darkest night.

Another German bomb for the use of aeroplanists and airships releases a tremendous amount of dense smoke which spreams in a great cloud under cover of which the aviator may possibly have a chance to make his escape.

States for its merchant marine of any German owned ships.

M. Jusserand contended, it is said, that great sums of money would be placed in German hands through the rails of the United States.

Furthermore, he argues, it is understood that as the allies have swept the seas clear of German commerce the United States would be giving resources for food supplies to Germany which otherwise she would not get.

Still another bomb is charged with 150 pounds of chemicals which upon exploding, is supposed to fill the air with gases so poisonous that every living creature within a radious of a hundred yards will be killed, and the influence of the gas is expected to extend to a lesser degree to twice that distance.

The French have

40 GERMAN RESERVISTS. WHO LEFT NEW YORK. SEIZED BY THE BRITISH.

the arrival here to-day of the steamer plans for the establishment of two municipal markets to combat the interpreted that British seamen boarded her at Gibraltar and cook off forty German reservists who is an route seam the United States. The steamen to the markets will be located in territory where they may serve nearly 1.00.

United States to combat the interpreted the grew of a scotch fishing craft, which has been sunk by a floating mine tory where they may serve nearly 1.00.

Northumberland, were landed at Mull to-day. the arrival here to-day of the steamer



to Have Their Books

Vised.

man in a few weeks seems like a ment had called out its reservists in tation to America. fairy tale to the average buman this country was denied to-day by G. being, who has reason to believe that Fara Forni, the Italian Consul Genso much money could only be ob- eral. Nevertheless his office at No. tained in so short a time by wrock- 226 Lafayette street swarms with sons perous, but anxious to return home ing a railroad or other gigantic and of Italy who are piedged to go back quickly. There is a much larger num

"For the last week," said the Consul-General, "reservists have been be submitted to the Consul at stated may keep track of him.

"These men are coming in for the land. purpose of letting us know that they

There are probably 5,000 Italian re they would assemble in this city preof their own nation for the scene of ished.

dren. They were serious but de-termined. Some of the women were a trifle hysterical over the prospect of losing their husbands, but generally, the demeanor of the visitors indicated who are obliged to answer the call from New York will do so without any great fuss or excitement.

**CANADIAN BOY SOLDIER** SHOT BY UNSEEN ASSAILANT

MONTREAL, Aug. 28 .- Sixteen-year old Gordon Betts, private in the Fifth Royal Highlanders, was shot in the eye and killed to-day by an unseen assailand killed to-day by an unseen assali-ant while on sentry duty at the canal at Soulanges.

Since the outbreak of the war a guard has been placed over all canals in the Dominion to prevent their being injured by dynamite. Soldiers at Soulanges, guarding the anal, have been fired on repeatedly during the last few days.

GERMAN TROOPS ATTACK BELGIANS IN AFRICA: ALLIES WILL DEFEND special train from Geneva this morn-

from Libreville, in the French Congo, says that the Belgian Congo has been attacked by German troops.

The Helgian administration, in accord with Great Britain, has taken defensive measures and has informed the French Government of its action.

NAPLES, Aug. 27, via Paris, Aug. 28 (Associated Press).—The steam-er San Giorgio has sailed for New York with about 500 Americans on board.

SCOTCH FISHING BOAT

CHICAGO, Aug. 28.—The City Markets Commission met to-day to complete



With Funds for Stranded American Travellers.

Vienna report that Henry S. Breckin-Washington, arrived there from Berlin Wednesday and began the work of aiding needy Americans.

Aided by Frederick C. Penfield, the Imperial. Special measungers were despatched to the addresses of all Americans who had applied to the them to come personally to the bureau The next day the bureau was crowde with Americans from early mornin until midday.

Monetary relief was asked for b comparatively few of the callers, their

It is estimated that there are beber in Budapest, where Capt. Cross has already gone with \$1,500 in gold. According to the latest information

able to travel this route to get to Hol- which is docked at Hoboken, gave Mr. Breckinridge, accompanied by

will be within call if needed. They Ambassador Penfield, visited the For- is getting ready to slip out to sea. eign Office and also the Minister of No confirmation of the report could War. He was most cordially re- be obtained at the North German ceived everywhere. The officials ex- Lloyd offices and no application has servists subject to the first call in pressed a desire to facilitate his work Manhattan and the Bronx and 10,000 and Mr. Breckinridge hopes he will in the State of New York. If there finish up here Friday evening, when in Hoboken that the Grosser Euershould be a call for the reservists he will go to Switzerland. He will furst has taken on an awful lot of leave a member of the commission paratory to taking passage on ships here until the work of relief is fin-

LONDON, Aug. 28 (Associated Many of the men who called to-day to have their books vised were accompanied by their wives and chil-don to-day from Flushing include Mr. and Mrs. Lorenz of Brooklyn. Mr. Lorenz had been at Otterweir, near Kiel, for a month, trying to get away. He reached Rotterdam via Mannfleim, Stuttgart and The Hague. Over 900 Americans are waiting at Mannheim to get away, according to Mr. Lorenz, some of whom said they were afraid to cross the Channel because of the

WHILE GUARDING A CANAL have return tickets and plenty of Dutch and German paper money, but were unable to change it. These are being financed by the relief commit-

tee. The American Embassy has re of Copenhagen, stating that a special train would arrive at Flushing this morning bringing 550 American refuges from Germany. These passengers had been left stranded and are being sent through by the Embassy.

Another despatch from Bergen, Norway, says a number of refugees have arrived there from Russia. They re-port very few of their countrymen are left in Russia.

ing. The train is due in Paris some time to-day. NAPLES, Aug. 27, via Paris, Aug.

SUNK BY A MINE OFF ENGLISH COAST.

## BRITISH STEAMER BUT LETS HER GO

Breckinridge Reaches There First Makes Drumcliffe's Captain and Crew Sign Papers of Neutrality.

> steamer Drumcliffe, reported on ber arrival here to-day from Buenos Ayres and Trinidad that on Aug. C. off the coast of Brazil, his ship was halted by the German cruiser Dresden, and that he was compelled by the Dresden's commander to sign a pledge not to fight against Germany. Capt. Evans said that be had given the pledge only because he feared for the safety of his wife and child, who

were on board. The German boarding party cam alongside, be said, with rifles pointed while the cruiser stood by with her guns trained on the ship. The Gernans destroyed the Drumeliffe's wireless apparatus, and the Dreeden, after standing near the freighter for nearly four hours, steamed east.

#### GERMAN LLOYD SHIP MAKES READY TO SLIP OUT WITH COAL CARGO

rise to the report to-day that this vessel, loaded to capacity with coal. been made at the Customs House for clearance papers, but it was admitted

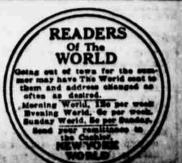
It is supposed that this coal is intended for one of the German cruisers in the Atlantic. It it be true that the Grosser Kuerfurst has taken on coal for a war vessel there is no way by which this Government can prevent her from sailing. Her clearance papers will have to be respected for the set of leaving a neutral harbor the act of leaving a neutral harbor with coal aboard does not constitute a violation of neutrality.

The Grosser Kuerfurst of 16,000

The Grosser Kuerfurst of 10,000 ton displacement and is one of the old vessels of the line. Should she be destroyed by the warships of an enemy the steamship company could call on the German Government for payment of the loss sustained.

# Constipation

Ex-Laz relieves constipa Nine hundred Americans left on a special train from Geneva this morn-



#### **GREATEST BATTLES IN WAR-HISTORY**

VIVID WORD PICTURES OF THE MOST DECISIVE CONFLICTS IN THE ANNALS OF WARFARE.

WILL BEGIN IN MONDAY'S EVENING WORLD.

By ALBERT PAYSON TERHUNE

main part of a machine while in the